| In | dex of | Claims |  |
|----|--------|--------|--|
|    |        |        |  |

09/889,585

Examiner

Paulos M. Natnael

2614

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

(Through numeral)
Cancelled

Restricted

Non-Elected

I Interference

A Appeal
O Objected

Applicant(s)

MUTO ET AL. Art Unit

| Cla         | im                   | Date                                |   |  |  |  |              |  |  |             |
|-------------|----------------------|-------------------------------------|---|--|--|--|--------------|--|--|-------------|
|             |                      | 16/04                               |   |  |  |  |              |  |  |             |
| _           | Ø                    | á                                   |   |  |  |  |              |  |  |             |
| E           | <u>;</u>             |                                     | -   |  |  |  |              |  |  |             |
| Final       | .≝′                  | 2                                   |   |  |  |  |              |  |  |             |
|             | Original             | 7                                   | ŀ   |  |  |  |              |  |  |             |
|             |                      | _                                   |   |  |  |  |              |  |  |             |
| 1           | 1                    | =                                   |   |  |  |  |              |  |  |             |
| 1<br>2<br>3 | 1<br>2<br>3          | =                                   |   |  |  |  |              |  |  |             |
| <del></del> | -                    | H                                   |   | _  | _  |  | -            |  |  |             |
| 3           | 3                    | =                                   |   |  |  |  |              |  |  |             |
| 4           | 4<br>5               | =                                   |   |  |  |  |              |  |  |             |
| 5           | 5                    | _                                   |   |  |  | $\vdash$   | <b>-</b>     |  | $\vdash$   | $\vdash$    |
|             | 3                    | -                                   |   | _  | _  | <u> </u>   |              |  |  | <u> </u>    |
| 6           | б                    | =                                   |   |  |  |  |              |  | L  |             |
| 7           | 6<br>7               | =                                   |   |  |  |  |              |  |  | İ           |
| 8           | 8                    | =                                   | _   |  | $\vdash$   |  |              |  | $\vdash$   |             |
|             | 0                    | <u>-</u> -                          | <u> </u>  |  | -  | ├  | $\vdash$     | -  | ├  | _           |
| 9           | 9                    | =                                   |   |  | L  | l  | L            |  | L .  |             |
| 10          | 10                   | =                                   | Γ   |  | Γ  | Г  |              |  |  |             |
| 11          | 11                   | =                                   | $\vdash$  |  | <del> </del>                                     | <del>                                     </del> | <del> </del> |  | <del> </del>                                       | <del></del> |
| 11          | 11                   | -                                   | ├—  | ├—   | <u> </u>   |  | <u> </u>     | <u> </u>   | <u> </u>   | ļ           |
| 12<br>13    | 12                   | =                                   | L   | L  | L  |  | L            | L  | L  |             |
| 13          | 13                   | =                                   |   |  | Г  |  |              |  |  |             |
| 4.4         | 144                  | $\vdash$                            | $\vdash$  | $\vdash$   | $\vdash$   | $\vdash$   | 1            | $\vdash$   | $\vdash$   | $\vdash$    |
| 14<br>15    | 12<br>13<br>14<br>15 | =                                   | <u> </u>  | <u> </u>   | <u> </u>   |  | <u> </u>     | <u> </u>   | <u> </u>   | $\vdash$    |
| 15          | 15                   | =                                   | 1   |  | l  |  | l            | l  |  |             |
| 16          | 16                   | =                                   |   |  | $\vdash$   | T  |              |  | $\Box$   | Г           |
|             |                      | <u> </u>                            | ٠   |  | <del> </del>                                     |  | <del>-</del> | ├  |  |             |
|             | 1/                   | $oxed{oxed}$                        | $ldsymbol{ld}}}}}}$ |  |  | L  | L            | L  | <u> </u>   | L           |
|             | 17<br>18             |                                     | l   |  |  |  |              | -  |  |             |
|             | 19                   | <del>   </del>                      | <del> </del>  |  | -  | t  | t            | t -  | 1  |             |
|             | 19                   | $\vdash$                            | -   | _  | ├  | -  | -            | <u> </u>   | _  | <u> </u>    |
|             | 20<br>21             |                                     | l   | l  |  |  |              | l  | l  | ŀ           |
|             | 21                   |                                     |   | 1  |  |  |              |  |  |             |
| _           | 20                   | $\vdash$                            | $\vdash$  | <del> </del>                                     |  | <del> </del>                                     | <del> </del> |  | <del>  -                                    </del> | -           |
|             | 22                   | ļ                                   | <u> </u>  | <u> </u>   | _  |  | <u> </u>     |  | _  | _           |
|             | 23                   |                                     | l   | l  |  |  |              | l  |  | l           |
|             | 24                   |                                     | T   | Ι  |  | T  | T            | T  | T  | Ι           |
|             | -27                  | $\vdash$                            | <del>                                     </del>  | <del>                                     </del> | -  | -  |              | -  | -  | ├           |
|             | 25                   | $oxed{oxed}$                        | <u> </u>  |  | Ь_   |  |              | Ь_   |  |             |
|             | 26                   | 1                                   |   |  |  | 1  |              |  |  |             |
|             | 27                   |                                     |   | · · · ·  | T  | 1  | $I^-$        |  | Г  |             |
|             | 20                   | -                                   |   | ├—   |  | -  |              |  |  | ├           |
|             | 28                   |                                     |   |  |  |  | L            | <u> </u>   | L  | L           |
|             | 29                   | 1                                   |   | Ī  |  |  |              |  |  |             |
|             | 30                   | 1                                   | T   |  |  |  |              |  |  | <b>T</b>    |
|             | 30                   | -                                   |   |  |  | ļ  | <b>!</b> —   | <u> </u>   | ⊢  | <b>—</b>    |
|             | 31                   |                                     |   | L  | L  |  |              |  |  |             |
|             | 32                   |                                     | <u> </u>  |  |  |  |              |  |  |             |
|             | 33                   | <del>  -  </del>                    | ├   | $\vdash$   | <del> </del>                                     |  | -            | $\vdash$   | $\vdash$   | <b>!</b>    |
|             |                      | 1_                                  | <u> </u>  | <u> </u>   | <u> </u>   |  | L            | <b> </b>   | _  | $\vdash$    |
|             | 34                   |                                     |   | l  | ŀ  |  |              | l  |  |             |
|             | 35                   | -                                   | ·   |  |  |  |              |  |  | •           |
|             | 35                   |                                     | $\vdash$  | $\vdash$   | $\vdash$   | $\vdash$   | -            | <del>                                     </del> |  | H           |
|             | 36                   |                                     | _   |  |  | _  | <u> </u>     | <u> </u>   |  | ш           |
|             | 37                   |                                     |   | l  |  |  |              | l  | ]  |             |
|             | 38                   | Г                                   |   | $\Box$   | Γ.   |  | T            |  | İ  |             |
|             | 30                   | -                                   | <del>                                     </del>  | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$     | <del> </del>                                     | -  | $\vdash$    |
|             | 39                   | <b>└</b>                            | <u> </u>  | ļ  | <u> </u>   | _  |              | <u> </u>   | <u> </u>   |             |
|             | 40                   |                                     |   | ĺ  |  |  | [            |  | 1  |             |
| -           | 41                   |                                     |   |  | T  |  |              |  |  |             |
|             |                      |                                     | -   | $\vdash$   | ⊢-   | -  | <u> </u>     | $\vdash$   | $\vdash$   | -           |
|             | 42                   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u>L</u> .  |  |  |  |              | L  |  |             |
|             | 43                   |                                     |   |  |  |  |              | I  |  |             |
|             | 44                   | <del> </del>                        | <del> </del>  | <del> </del>                                     | Ι  | <del>                                     </del> | $\vdash$     | $\vdash$   |  | -           |
|             |                      |                                     | <u> </u>  | _  |  |  | <u> </u>     | <u> </u>   | <u> </u>   | ļ           |
|             | 45                   |                                     | l   | l  | l  |  |              | 1  | ĺ  |             |
|             | 46                   | $\Box$                              |   |  |  |  |              |  |  |             |
|             |                      | <del> </del>                        |   | ├  | ├  | ├—   | $\vdash$     | <b>—</b>   | -  | <u> </u>    |
|             | _47                  |                                     |   | L  |  | <u> </u>   |              | <u> </u>   | L  |             |
|             | 48                   |                                     |   |  |  |  |              |  |  |             |
|             | 49                   |                                     | -   | <del>                                     </del> |  | $\vdash$   | -            | _  | Н  | Н           |
|             |                      | $\vdash$                            | <b>—</b>  | <u> </u>   | _  | $\vdash$   | <b>-</b>     |  | <u> </u>   | ш           |
|             | 50                   | <u>L_</u>                           | L   | L  | L_   | Ŀ  |              | L  | L  | L I         |
|             |                      |                                     |   |  |  |  |              |  |  |             |

|          |          | ,   |          |              |  |                |          |          |          |          |
|----------|----------|---|----------|--------------|--|----------------|----------|----------|----------|----------|
| Cla      | iim      |   |          |              | _[   | Date           | <u> </u> |          |          |          |
| Final    | Original |   |          |              |  |                |          |          |          |          |
|          | 51       |   |          |              | -  |                | m        |          | _        |          |
| -        | 52       |   |          |              | -  |                |          |          |          |          |
|          | 53       |   |          |              |  |                |          |          |          |          |
|          | 54<br>55 |   |          |              |  |                |          |          |          |          |
|          | 55       |   |          |              |  |                |          |          |          |          |
|          | 56       |   |          | L            | _  |                |          |          |          |          |
|          | 57       | L   |          |              |  | _              | L        | L.       |          |          |
|          | 58       | L   | L.       | _            | _  | <u> </u>       | L        |          |          |          |
|          | 59       | _   |          | _            | L  | <u> </u>       |          |          |          |          |
| <u> </u> | 60       |   |          | <u> </u>     | Ļ  | <u> </u>       |          |          |          | _        |
| <u> </u> | 61       | <u> </u>  | _        | _            | <u> </u>   |                |          |          |          | <u> </u> |
| <u> </u> | 62       | _   | _        | <u> </u>     | <u> </u>   |                |          | _        |          | _        |
| <b>├</b> | 63       | 1   | <u> </u> | <u> </u>     | ļ  |                |          | -        |          |          |
| -        | 64<br>65 | 1   | ┝        | ⊢            |  | -              | _        |          | -        | $\vdash$ |
|          | 66       | -   |          |              | <del> </del>                                     | -              | -        |          | -        | -        |
|          | 67       | $\vdash$  |          | ┝            | $\vdash$   |                |          | -        |          |          |
|          | 68       | -   |          | -            |  |                |          | -        |          | -        |
|          | 69       |   |          | ┢            | ┢  | $\vdash$       |          |          |          |          |
|          | 70       |   |          |              |  |                |          |          |          |          |
|          | 71       |   |          |              | $\vdash$   |                |          | -        |          | $\vdash$ |
|          | 72       | <u> </u>  |          | <del> </del> |  | <del>  -</del> |          |          |          |          |
|          | 73       | <del>                                     </del>  |          | <u> </u>     | _  |                | <u> </u> |          |          |          |
|          | 74       |   |          |              |  |                |          |          |          |          |
|          | 75       | ļ —   |          |              |  |                |          |          |          |          |
|          | 76       |   |          |              |  |                |          |          |          |          |
|          | 77       |   |          |              |  |                |          |          |          |          |
|          | 78<br>79 |   |          |              |  |                |          |          |          |          |
|          | 79       | L   |          | <u> </u>     |  |                |          |          | L.       |          |
|          | 80       | <u> </u>  | <u> </u> |              |  |                |          |          |          |          |
|          | 81       | <u> </u>  |          |              |  |                |          | L        |          |          |
|          | 82       | <u> </u>  |          |              |  | L_             | ļ        | L_       |          |          |
|          | 83       |   |          |              |  |                | ļ        | L        | _        |          |
|          | 84       | -   | <u> </u> |              | <u> </u>   | <u> </u>       | <u> </u> | ļ.,      | <u> </u> |          |
| -        | 85<br>86 |   |          |              | ├-   |                | _        |          | $\vdash$ |          |
| -        | 87       |   |          |              | -  |                | -        |          |          | -        |
|          | 88       |   |          |              | <del> </del>                                     | <u> </u>       | $\vdash$ | l        | -        | -        |
| _        | 89       | $\vdash$  |          |              | <del> </del>                                     |                | $\vdash$ |          |          |          |
|          | 90       | <u> </u>  |          | <u> </u>     | <del>                                     </del> |                | $\vdash$ |          | H        | H        |
|          | 91       |   | •        |              | <u> </u>   |                |          |          |          |          |
|          | 92       |   |          |              | $\vdash$   | _              | <u> </u> | -        |          |          |
|          | 93       |   |          |              |  |                |          |          |          | _        |
|          | 94       |   |          |              |  |                |          |          |          |          |
|          | 95       |   |          |              |  |                |          |          |          |          |
|          | 96       |   |          |              |  |                |          |          |          |          |
|          | 97       | $oxed{\Box}$  |          |              |  |                |          |          |          |          |
|          | 98       | L_  |          | $oxed{\Box}$ |  |                |          |          |          |          |
|          | 99       | $ldsymbol{ld}}}}}}$ |          |              | L_   |                | _        | L.       |          |          |
|          | 100      |   |          |              |  |                |          | <u> </u> |          |          |

| Claim                           |  |  | Date         |              |              |          |          |
|---------------------------------|--|--|--------------|--------------|--------------|----------|----------|
| 101<br>102<br>103<br>104<br>105 |  |  |              |              |              |          |          |
| 101<br>102<br>103<br>104<br>105 |  |  |              |              |              |          |          |
| 101<br>102<br>103<br>104<br>105 |  |  |              |              |              |          |          |
| 101<br>102<br>103<br>104<br>105 |  |  |              |              | l            |          |          |
| 103<br>104<br>105               |  |  |              |              |              | L        |          |
| 103<br>104<br>105               |  |  |              |              |              |          |          |
| 103<br>104<br>105               |  |  |              |              |              |          |          |
| 104<br>105                      |  | 1  |              | <u> </u>     |              |          |          |
| 105                             | $\vdash$                               | l  |              | $\vdash$     | $\vdash$     |          |          |
| 103                             | 1                                      | ┢  | $\vdash$     | $\vdash$     |              | _        |          |
| 11061 1                         | 1                                      |  |              | ┢            |              |          |          |
| 106<br>107                      | +                                      | ├  | 1            | <del> </del> |              |          | _        |
| 107                             | ₩                                      | ├  | ├            | _            | <u> </u>     |          |          |
| 108<br>109                      | ₩                                      | ļ  | —            | _            | <u> </u>     |          |          |
| 109                             | ₩                                      |  | <u> </u>     | ldash        |              |          |          |
| 110                             | ــــــــــــــــــــــــــــــــــــــ |  |              | L            |              |          |          |
| 111<br>112<br>113               | $\perp$                                | L  |              |              |              |          |          |
| 112                             |  | L  | L            |              |              |          |          |
| 113                             | $L^{-}$                                | L  | L            | L            |              |          | E        |
| 114<br>115                      |  |  |              |              |              |          |          |
| 115                             | T                                      |  |              |              |              |          |          |
| 116                             | T                                      | $\vdash$   | <b>†</b>     | $\vdash$     |              |          | -        |
| 117                             | $\top$                                 | <del>                                     </del> |              |              | <u> </u>     | $\vdash$ |          |
| 118                             | $\vdash$                               | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$ |
| 110                             | ╂                                      |  | 1-           |              |              |          | $\vdash$ |
| 119<br>120<br>121               | ╂                                      | -  | }            |              |              | ļ        |          |
| 120                             | ╁                                      |  | <del> </del> | -            | -            | -        | ļ        |
| 121                             | 1                                      | ļ  | <u> </u>     |              |              |          | _        |
| 122                             |  |  | <u> </u>     |              |              |          | Ĺ        |
| 123                             |  | <u> </u>   |              |              |              |          |          |
| 122<br>123<br>124<br>125<br>126 |  |  | L            |              |              |          |          |
| 125                             |  |  |              |              |              |          |          |
| 126                             |  |  |              |              |              |          | ļ        |
| 127                             | 1                                      |  |              |              |              |          |          |
| 128                             |  |  | T            |              |              |          |          |
| 127<br>128<br>129               | 1                                      | <del>                                     </del> |              |              |              |          | $\vdash$ |
| 130                             | +                                      | <del>                                     </del> | -            |              |              |          | ┢        |
| 130<br>131<br>132               | ╁                                      | ┝  | ⊢            |              |              |          | ⊢        |
| 131                             | 1                                      |  | ├            | ┝╌           |              |          | -        |
| 132                             | ╄                                      |  | -            | <u> </u>     |              |          |          |
| 133<br>134                      | ╄                                      | <u> </u>   | ⊢            | <u> </u>     | _            |          | _        |
| 134                             | ╄-                                     | ļ  | <u> </u>     | <u> </u>     | <u> </u>     | <u> </u> | <u> </u> |
| 135<br>136                      | <u> </u>                               | L-   | <u> </u>     | <u> </u>     |              |          | <u> </u> |
| 136                             | 1_                                     | <u>L</u>   | <u> </u>     |              |              | <u> </u> | L.       |
| 137                             |  |  |              | <u> </u>     | ļ            |          |          |
| 138                             |  |  |              |              |              | <u> </u> |          |
| 138<br>139                      |  |  | L            |              |              |          | L        |
| 140                             |  |  | L            | L            |              |          |          |
| 141                             |  |  |              |              |              |          |          |
| 142                             | T                                      |  |              |              |              |          |          |
| 143                             | T                                      |  |              |              | Γ            |          |          |
| 144                             | 1                                      | $\vdash$   | l –          | $\vdash$     |              |          |          |
| 145                             | $\vdash$                               | $\vdash$   | ┢╌           | $\vdash$     | -            | -        |          |
|                                 | ┼-                                     |  | $\vdash$     |              |              | $\vdash$ | -        |
| 146                             | $\vdash$                               | ├-   | ├~           | $\vdash$     | <del> </del> |          | -        |
| 147                             | ┼                                      | $\vdash$   | ├            | <u> </u>     | <u> </u>     | <u> </u> | _        |
| 148                             | ↓_                                     | igsqcut  | <u> </u>     | <u> </u>     | ļ            | <u> </u> |          |
| 149                             | ــــــــــــــــــــــــــــــــــــــ | _  | L_           |              | <u> </u>     | L        |          |
| 150                             |  | L  | L_           |              | L            | L        | L        |
|                                 |  |  |              |              |              |          |          |